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OXC - 4503
Copy 3 of 4

19 February 1963

MEMORANDUM FOR THE RECORD

SUBJECT : Interface Meeting - Oxcart Cameras, Tape Recorder
and NPIC

1. The meeting convened at 0930, 14 February 1963 []

[] In attendance were:

[] PIC/TID
[] PIC/Tech.Sup.
[] PIC/TAB
[] PIC/Computer
[] PIC/TSB
[] PIC/Plans&Dev.
[] E-K

[] OD/OSA
[] DD/OSA
[] M-H
[] M-H
[] P-E
[] P-E
[] LAC

2. Introduction, agenda, and general status of the two camera systems was given by the writer while [] got an Oxcart-III briefing from NPIC security.

3. [] gave a description of the Type I camera with particular emphasis on the characteristics that would be of interest to the photo interpreters. [] inquired about the course of action to be taken in the event of an INS failure or malfunction that would cause the driver to go into emergency navigation procedures and head for the refueling rendezvous. In this case the camera would continue to run but longitude and latitude signals would be lacking on both the film and recorder, 400 cycle time signals however would still be operative.

4. [] then described the Type II camera including details on format, angular coverage, sweep ratio, v/h sensor, recording chamber and system resolution.

5. [] next presented the Airborne Mission Data Recorder, describing the data that is to be recorded and the information supplied by the INS to both the cameras and the recorder. The recorder use 1" magnetic tape at a speed of 15/16" per second and a total time of 5 hours

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OXC-4503

Page 2

for seven channels or 2 1/2 hours for 14 channels. Recorded information includes:

- | | |
|-----------------|-----------------|
| 1. Pitch | 7. Longitude |
| 2. Roll | 8. V/H |
| 3. Azimuth | 9. Elapsed time |
| 4. Drift Angle | 10. Clock |
| 5. Ground Speed | 11. Cage |
| 6. Latitude | |

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The data recorder and ground equipment for producing punched paper tape will be delivered to [] for flight and operational checks by 20 March. At this point, questions and answers revealed that a lengthy discussion would ensue covering detailed interface areas, so [] was asked to describe what happens to reconnaissance film when it arrives at NFIC for evaluation. This presentation brought the meeting up the lunch break.

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6. [] discussed the specific interface areas between the Type I and Type II and Data Recorder system and obtained agreements between all three as to signal levels, transients and switching conditions. Six signals are required from the camera package to the Tape Recorder. These are:

- | | |
|--------------------|---------------------------|
| a. V/H | d. Auto Data Scan Inhibit |
| b. Principal Point | e. Camera Equipment On |
| c. Caging Status | f. Data Scan Off |

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[] will issue detailed memorandums of understanding to M-H, E-K, P-E, and Hycon, with a copy to DD/OSA.

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7. Meeting adjourned to a room where viewing tables had been set up and typical frames of film [] test operations were examined by the NFIC representatives.

8. General consensus, was that the meeting had been most fruitful in clarifying gray areas that had not been well identified in the past. The meeting will ensure that the same kind of information is provided to the data recorder from all three camera systems and that the customer will be able to utilize the information in the most efficient manner.

SIGNED

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[]
Development Division
OSA-DD/E

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